

【CLAIMS】

【Claim 1】

A truss framework system for slabs using a mold assembly, comprising:
a framework of a two or three dimensional shape, comprised of at least two lower and upper main iron-bars maintaining the interval there-between corresponding to a thickness of the slab to be constructed, and lattice iron-bars for maintaining the interval and reinforcing the main iron-bars;
a mold assembly including a panel formed with a plurality of insert holes spaced with predetermined interval and positioned below the framework, a wedge portion formed with a slit having an extension portion adjoining the lowest point and a narrow portion extending from the lowest point to the highest point and communicating with the extension portion, and arranged at the respective position of the insert holes of the panel, a sliding plate having a contacting portion formed with the wedge portion, and sliding means for slidably attaching the sliding plate to the panel; and
a connecting means for connecting the framework and the panel, and including an engaging portion connected to the framework, and an exposure portion having an extension portion connected to the engaging portion and is constructed that the upward and downward movement thereof is restricted by the engagement with the narrow portion of the slit caused by the movement of the sliding plate after extending to the extension portion of the slit of the sliding plate via the insert hole of the panel of the mold assembly.

【Claim 2】

The truss framework system according to claim 1, wherein the sliding means of the mold assembly comprises recesses formed at both sides of the contacting portions of the sliding plate; and
a securing plate fixed to the position of the insert hole of the panel, and formed with an insert hole corresponding to the insert hole of the panel and two engaging portions contacting with the recesses of the sliding plate.

【Claim 3】

The truss framework system according to claim 1, wherein the sliding means of the mold assembly comprises sliding elongated openings formed at both sides of the contacting portion of the sliding plate; and
joint members engaged with the panel after passing through the elongated openings.

【Claim 4】

The truss framework system according to any one of claim 1 to claim 3, wherein the both ends of the contacting portion of the sliding plate include ascending portions bent to a predetermined degree.

【Claim 5】

The truss framework system according to claim 1, wherein the panel of the mold assembly is further provided with a panel connecting device for connecting the panels to each other.

【Claim 6】

The truss framework system according to claim 5, wherein the panel connecting device includes an engaging member mounted along a periphery of the panel with predetermined interval and having a contacting portion bent to define a plane identical with the side plane of the panel and a separating preventing portion bent inwardly from the contacting portion; and a connecting member for binding the two engaging members and having a binding elongated opening comprised of an extension portion having a size enough to receive the separation preventing portion of the engaging bracket of the two adjacent engaging members and a narrow portion for binding the two engaging members with preventing the separation of the engaging bracket.

【Claim 7】

The truss framework system according to any one of claim 1 to claim 3, further comprising interval maintaining means for separating the lower main iron-bar of the framework from the panel of the mold assembly by predetermined interval.

【Claim 8】

The truss framework system according to claim 7, wherein the interval maintaining means comprises projections of the lower main iron-bar and the lattice iron-bar projecting downward.

【Claim 9】


The truss framework system according to claim 7, wherein the interval maintaining means comprises a supporting member interposed between the lower main iron-bar and the panel and connected to the engaging portion of the connecting means and the exposure portion.

【Claim 10】

The truss framework system according to claim 9, wherein the engaging portion of the connecting means comprises a hook portion or an engaging portion, upper portion or lower portion or all of which being engaged with

the main iron-bar.

【Claim 11】

The truss framework system according to claim 9, wherein the engaging portion of the connecting means is formed to have a cross-section of  by bending a metal plate, and concurrently acts as interval maintaining means, and the upper surface of the engaging portion is welded to the lower surface of the lower main iron-bar.

【Claim 12】

The truss framework system according to claim 11, wherein an upper plate of the engaging portion is formed with two contacting portions projecting upward to enclose the lower main iron-bar.

【Claim 13】

The truss framework system according to any one of claim 1 to claim 3, and claim 8 to claim 12, wherein the engaging portion is formed with a nut bushing so that it can contact with the upper surface of the panel, and the extension portion of the exposure portion is formed with a thread portion at the opposite end thereof for engaging with the nut bushing.

【Claim 14】

The truss framework system according to claim 7, wherein the engaging portion of the connecting means include a hook portion or an engaging portion with its upper portion or lower portion or all of them engaged with the main iron-bar, and
the interval maintaining means is a plate member formed at the connection portion between the engaging portion and the exposure portion, and contacting with the upper surface of the panel.

【Claim 15】

The truss framework system according to claim 14, wherein the plate member is a dome-shaped disk.

【Claim 16】

The truss framework system according to claim 14 or claim 15, wherein the upward movement of the plate member is restricted by stopping projections formed by pressing and transforming the connection portion itself.

【Claim 17】

The truss framework system according to claim 7, wherein the engaging portion of the connecting means include a hook portion or an engaging portion with its upper portion, lower portion or all of them engaged with

the main iron-bar, and

the interval maintaining means is a cone-shaped member made of concrete material formed at the connecting portion between the engaging portion and the exposure portion, and contacting with the lower surface of the lower main iron-bar and the upper surface of the panel.